

**25C5****BEAM POWER TUBE**

7-PIN MINIATURE TYPE

**25C5****GENERAL DATA****Electrical:**

Heater, for Unipotential Cathode:

Voltage . . . . . 25 . . . . . ac or dc volts

Current . . . . . 0.3 . . . . . amp

Direct Interelectrode Capacitances (Approx.)<sup>0</sup>:Grid No.1 to plate. . . . . 0.6  $\mu\text{f}$ Grid No.1 to cathode & grid No.3,  
grid No.2 and heater. . . . . 13  $\mu\text{f}$ Plate to cathode & grid No.3,  
grid No.2 and heater. . . . . 8.5  $\mu\text{f}$ **Mechanical:**

Operating Position. . . . . Any

Maximum Overall Length. . . . . 2-5/8"

Maximum Seated Length. . . . . 2-3/8"

Length, Base Seat to Bulb Top (Excluding tip) . . 2"  $\pm$  3/32"

Maximum Diameter. . . . . 3/4"

Dimensional Outline . . . . . See General Section

Bulb. . . . . T5-1/2

Base. . . . . Small-Button Miniature 7-Pin (JETEC No.E7-1)

Basing Designation for BOTTOM VIEW. . . . . 7CV

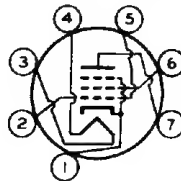
Pin 1 - Cathode,  
Grid No.3  
Pin 2 - Grid No.1  
Pin 3 - HeaterPin 4 - Heater  
Pin 5 - Grid No.1  
Pin 6 - Grid No.2  
Pin 7 - Plate**AMPLIFIER — Class A<sub>1</sub>****Maximum Ratings, Design-Center Values:**

PLATE VOLTAGE . . . . . 135 max. volts

GRID-No.2 (SCREEN-GRID) VOLTAGE . . . . . 117 max. volts

GRID-No.1 (CONTROL-GRID) VOLTAGE:

Positive bias value . . . . . 0 max. volts

GRID-No.2 INPUT . . . . . 1.25 max. watts

PLATE DISSIPATION . . . . . 6 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . . . . 200 max. volts

Heater positive with respect to cathode. . . . . 200\* max. volts

BULB TEMPERATURE (At hottest point  
on bulb surface). . . . . 220 max. °C**Typical Operation and Characteristics:**

Plate Voltage . . . . . 120 volts

Grid-No.2 Voltage . . . . . 110 volts

Grid-No.1 Voltage . . . . . -8 volts

<sup>0</sup>, \*: See next page.

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Peak AF Grid-No.1 Voltage. . . . .	8	volts
Zero-Signal Plate Current. . . . .	49	ma
Max.-Signal Plate Current. . . . .	50	ma
Zero-Signal Grid-No.2 Current. . . . .	4	ma
Max.-Signal Grid-No.2 Current. . . . .	8.5	ma
Plate Resistance (Approx.) . . . . .	10000	ohms
Transconductance . . . . .	7500	$\mu$ mhos
Load Resistance. . . . .	2500	ohms
Total Harmonic Distortion. . . . .	10	%
Max.-Signal Power Output . . . . .	2.3	watts

**Maximum Circuit Values:**

## Grid-No.1-Circuit Resistance:

For fixed-bias operation . . . . .	0.1 max.	megohm
For cathode-bias operation . . . . .	0.5 max.	megohm

° without external shield.

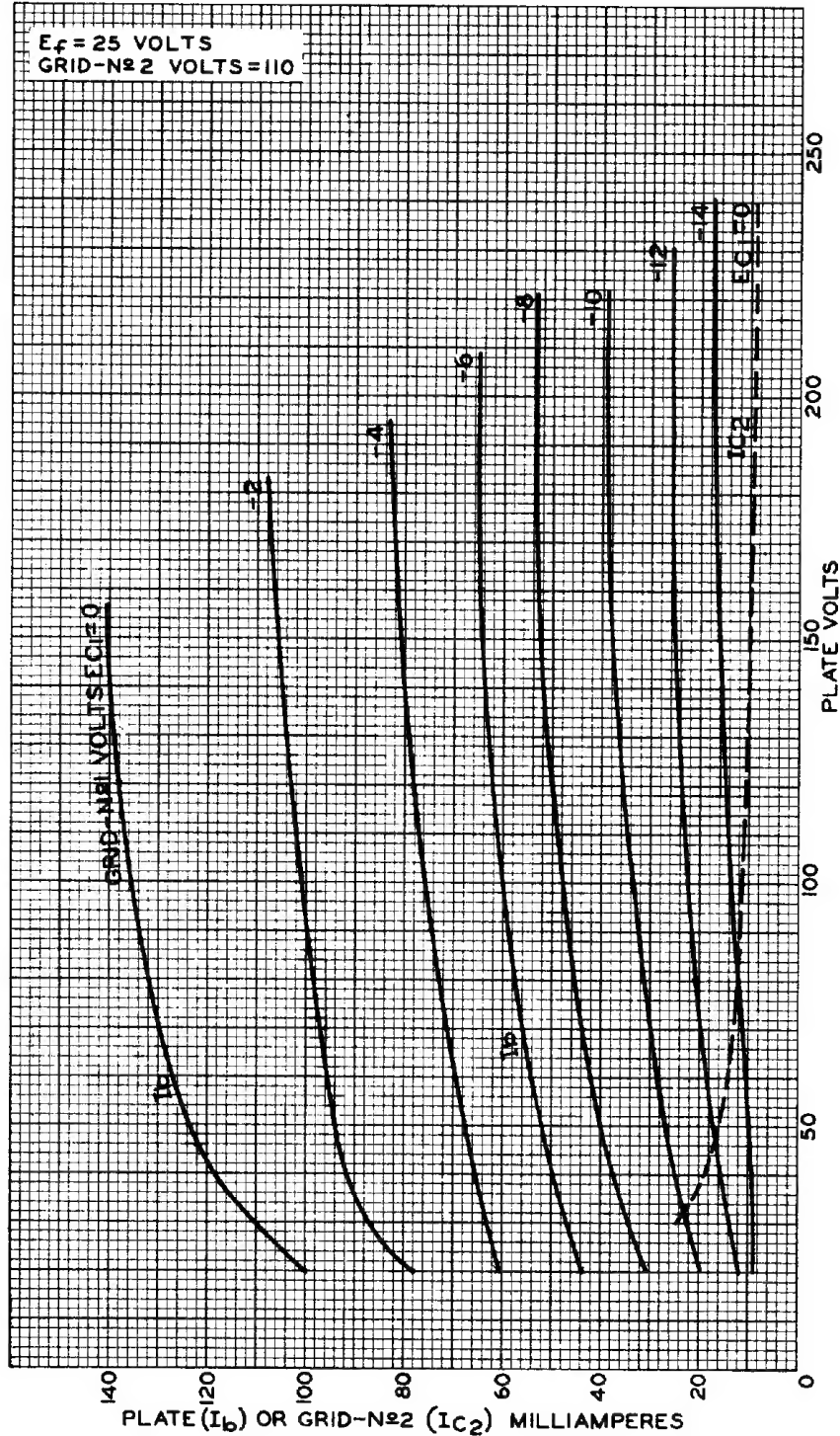
\* The dc component must not exceed 100 volts.



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# AVERAGE CHARACTERISTICS



ELECTRON TUBE DIVISION  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-8908R2

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# OPERATION CHARACTERISTICS

